

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

400229372

PluggingBond SuretyID

20060159

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☐ GAS ☒ COALBED ☐ OTHER _____

SINGLE ZONE ☒ MULTIPLE ☐ COMMINGLE ☐

Refiling

Sidetrack

3. Name of Operator: BLACK RAVEN ENERGY INC 4. COGCC Operator Number: 10203
5. Address: 1331 17TH STREET - #350
- City: DENVER State: CO Zip: 80202
6. Contact Name: Janice Aldstadt Phone: (303)308-1330 Fax: (303)308-1590
- Email: jaldstadt@blackravenenergy.com
7. Well Name: Sagehorn Well Number: 844-3-41-L8
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 2700

WELL LOCATION INFORMATION

10. QtrQtr: LOT 8 Sec: 3 Twp: 8N Rng: 44W Meridian: 6
Latitude: 40.698890 Longitude: -102.244220

			FNL/FSL			FEL/FWL
Footage at Surface:	2164	feet	FNL	1026	feet	FEL

11. Field Name: AMHERST Field Number: 2480
12. Ground Elevation: 3742 13. County: PHILLIPS

14. GPS Data:
- Date of Measurement: 11/18/2011 PDOP Reading: 1.8 Instrument Operator's Name: ROBERT RUBINO

15. If well is ☐ Directional ☒ Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone:			Bottom Hole:		
Sec:	Twp:	Rng:	Sec:	Twp:	Rng:

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No
17. Distance to the nearest building, public road, above ground utility or railroad: 1026 ft
18. Distance to nearest property line: 1026 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 2000

20. **LEASE, SPACING AND POOLING INFORMATION**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR			

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: _____
22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian
23. Is the Surface Owner also the Mineral Owner? ☒ Yes ☐ No Surface Surety ID#: _____
- 23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease? ☒ Yes ☐ No
- 23b. If 23 is No: ☐ Surface Owners Agreement Attached or ☐ \$25,000 Blanket Surface Bond ☐ \$2,000 Surface Bond ☐ \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):

T8N-R44W SECTION 3 - LOTS 1, 2, 3, 4 & N/2

25. Distance to Nearest Mineral Lease Line: 1026 ft

26. Total Acres in Lease: 515

DRILLING PLANS AND PROCEDURES

27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling? ☐ Yes ☒ No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☐ Yes ☒ No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☐ No

31. Mud disposal: ☐ Offsite ☒ Onsite

If 28, 29, or 30 are "Yes" a pit permit may be required.

Method: ☐ Land Farming ☐ Land Spreading ☐ Disposal Facility Other: EVAP & BURIAL

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	9+7/8	7+0/0	17	12	450	180	450	0
1ST	6+1/4	4+1/2	10.5	12	2,700	80	2,700	1,600

32. BOP Equipment Type: ☒ Annular Preventer ☐ Double Ram ☐ Rotating Head ☐ None

33. Comments NO CONDUCTOR CASING WILL BE USED. THE PERFORATED INTERVAL IS ESTIMATED TO BE SHALLOWER THAN 25 FEET. Black Raven Energy is requesting Expedited Approval of Forms 2 & 2A (Rule 303.1) due to exigent circumstances and therefore has attached a copy of the surface owner waiver as part of this application.

34. Location ID: _____

35. Is this application in a Comprehensive Drilling Plan ? ☐ Yes ☐ No

36. Is this application part of submitted Oil and Gas Location Assessment ? ☐ Yes ☐ No

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: JANICE ALDSTADT

Title: LANDMAN Date: 12/9/2011 Email: jaldstadt@blackravenenergy.

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: David S. Neslin Director of COGCC Date: 12/19/2011

API NUMBER

05 095 06390 00

Permit Number: _____ Expiration Date: 12/18/2013

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

- 1) Provide 24 hr notice of spud to Jim Precup at 303-469-1902 or e-mail at james.precup@ state.co.us.
- 2) Set surface casing at least 50' into Pierre Shale for aquifer coverage, (450' minimum - as proposed).
- 3) If completed, provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 4) If dry hole, set 35 sks cement 50' above Niobrara top, 35 sks cement ½ out, ½ in surface casing, 10 sks cement at top of surface casing, cut casing 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole.

A well being completed at a depth of 2500 feet or more must be 600 feet from a lease line and be at least 1200 feet from a well permitted/producing from the same formation, or requires an approved exception location. per rule 318a.

Attachment Check List

Att Doc Num	Name
2531601	VARIANCE REQUEST
2531632	WAIVERS
400229372	FORM 2 SUBMITTED
400230372	WELL LOCATION PLAT
400230373	TOPO MAP
400231002	WAIVERS

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comment received; final review completed.	12/19/2011 12:13:59 PM
Permit	Exigent variance approved 12/16/2011	12/19/2011 12:13:33 PM
Permit	Operator is seeking exigent circumstances to meet drilling obligations. Waivers attached	12/12/2011 5:54:09 AM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)